



Severe Storms Likely Tonight

March 31, 2023
2:39 PM

Damaging Straight Line Wind Gusts and A Few Tornadoes Main Threats

Key Messages

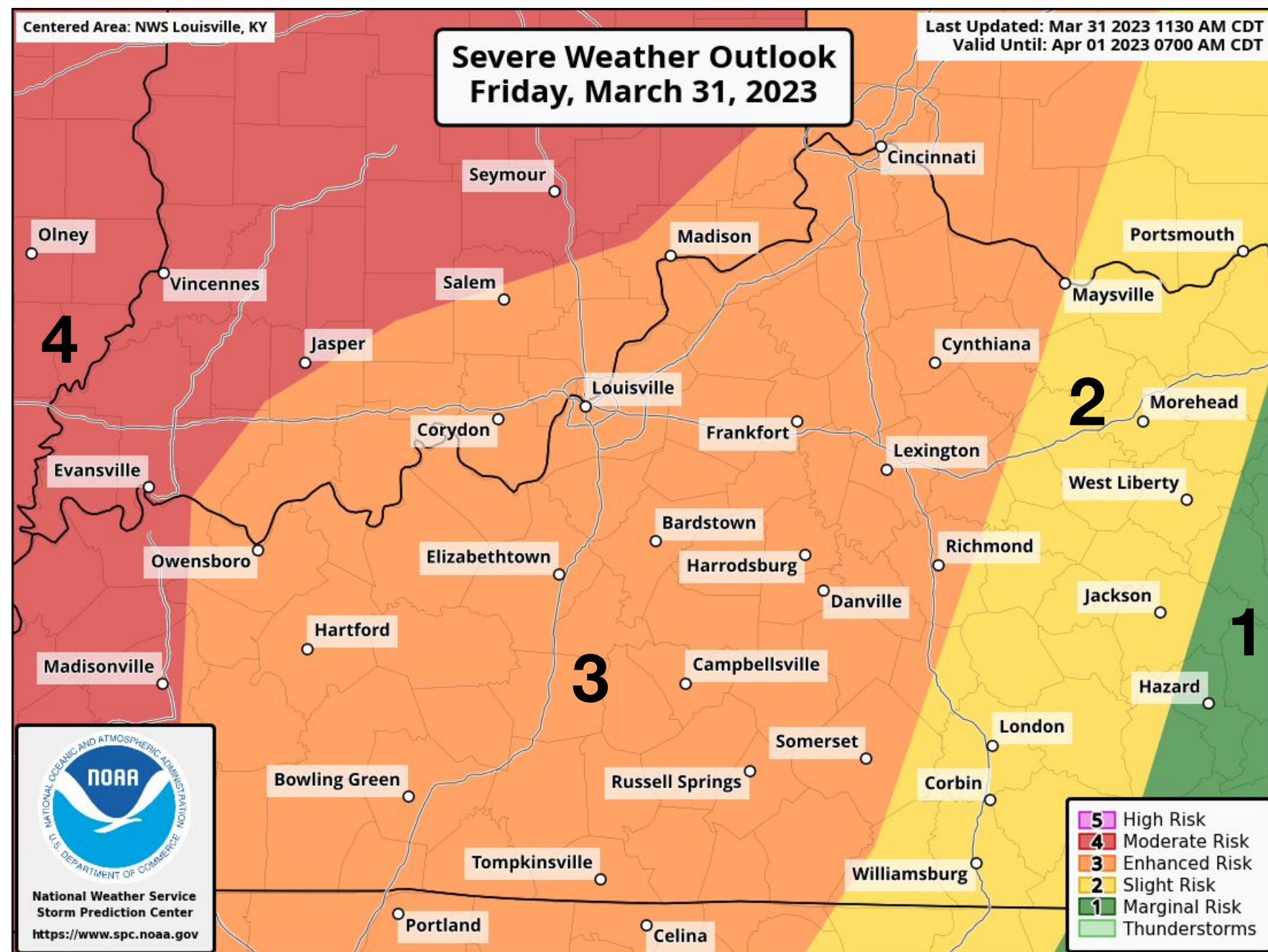
- A strong system will move across the Ohio Valley today into Saturday
- A threat for strong to severe storms exists tonight into early Saturday morning
 - Severe weather threat is highest & likeliest across western Kentucky, southwest Indiana, and central Indiana.
 - Severe potential farther east is dependent on the amount of available instability or “fuel”. Confidence in that portion of the region remains low to medium.

Overall Confidence in Severe Storms

Low

Medium

High



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Louisville, KY



Hazard Details

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Hatched Areas Indicate Threat for Significant Severe Potential

Overview

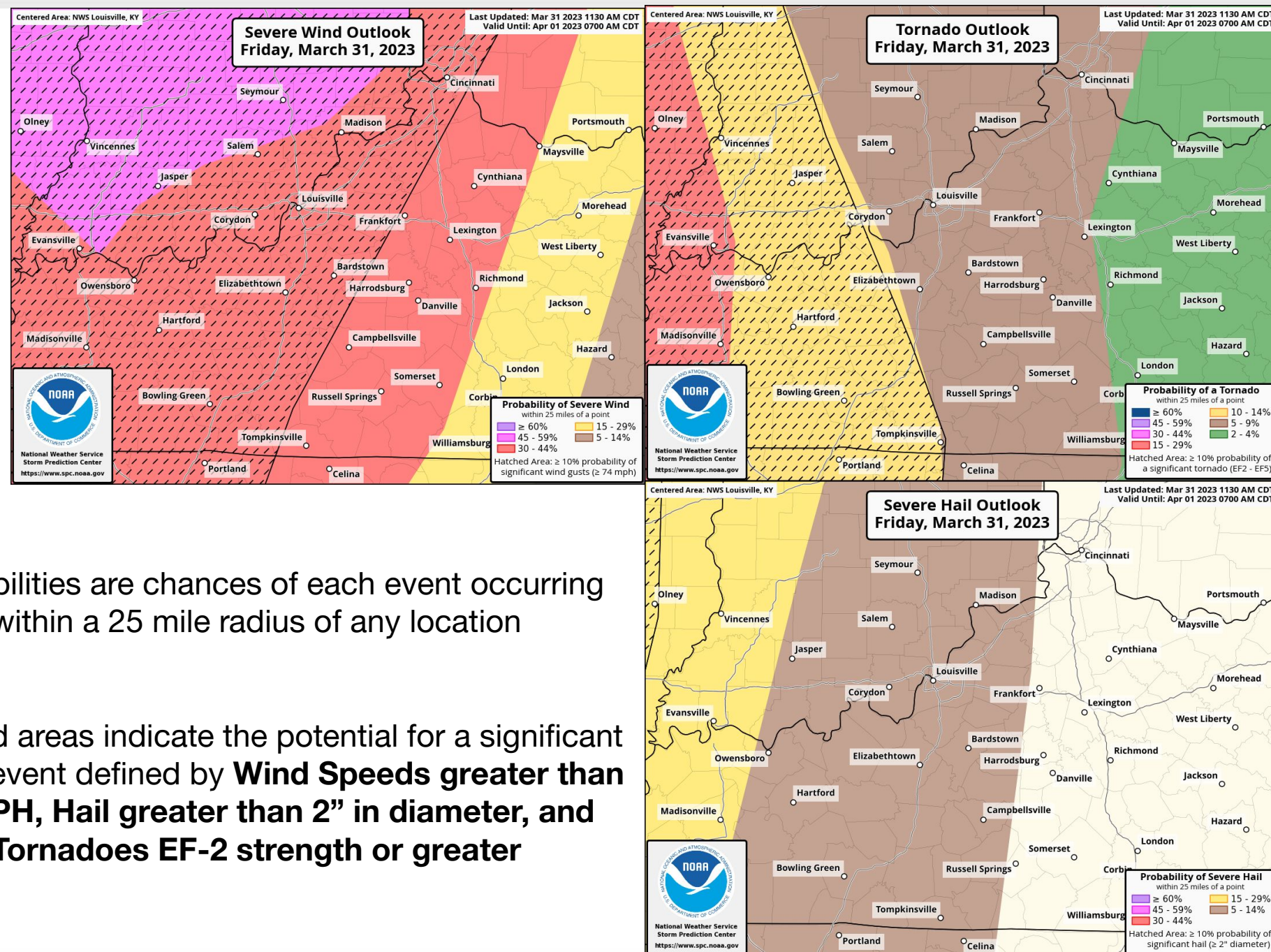
Detailed information about damaging wind, tornado, and hail threats with tonight's storm system

Actions



Be weather aware and ready to act.

Have multiple ways to receive warning information!



Probabilities are chances of each event occurring within a 25 mile radius of any location

Hatched areas indicate the potential for a significant severe event defined by **Wind Speeds greater than 74 MPH, Hail greater than 2" in diameter, and Tornadoes EF-2 strength or greater**

Severe Threats



Tornado



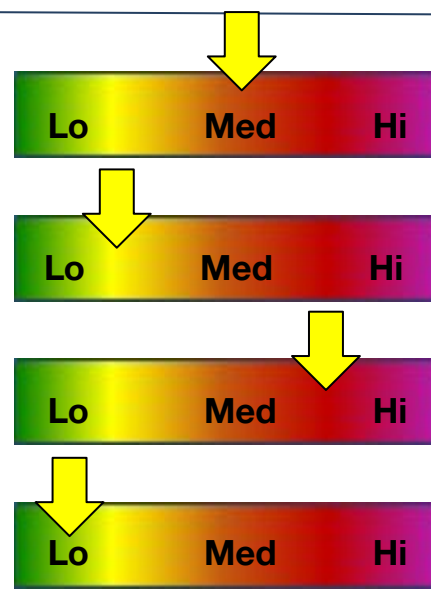
Hail



Wind



Flooding



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Louisville, KY



Approximate Time of Arrival

March 31, 2023
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Severe Thunderstorms Tonight into Saturday morning

Details

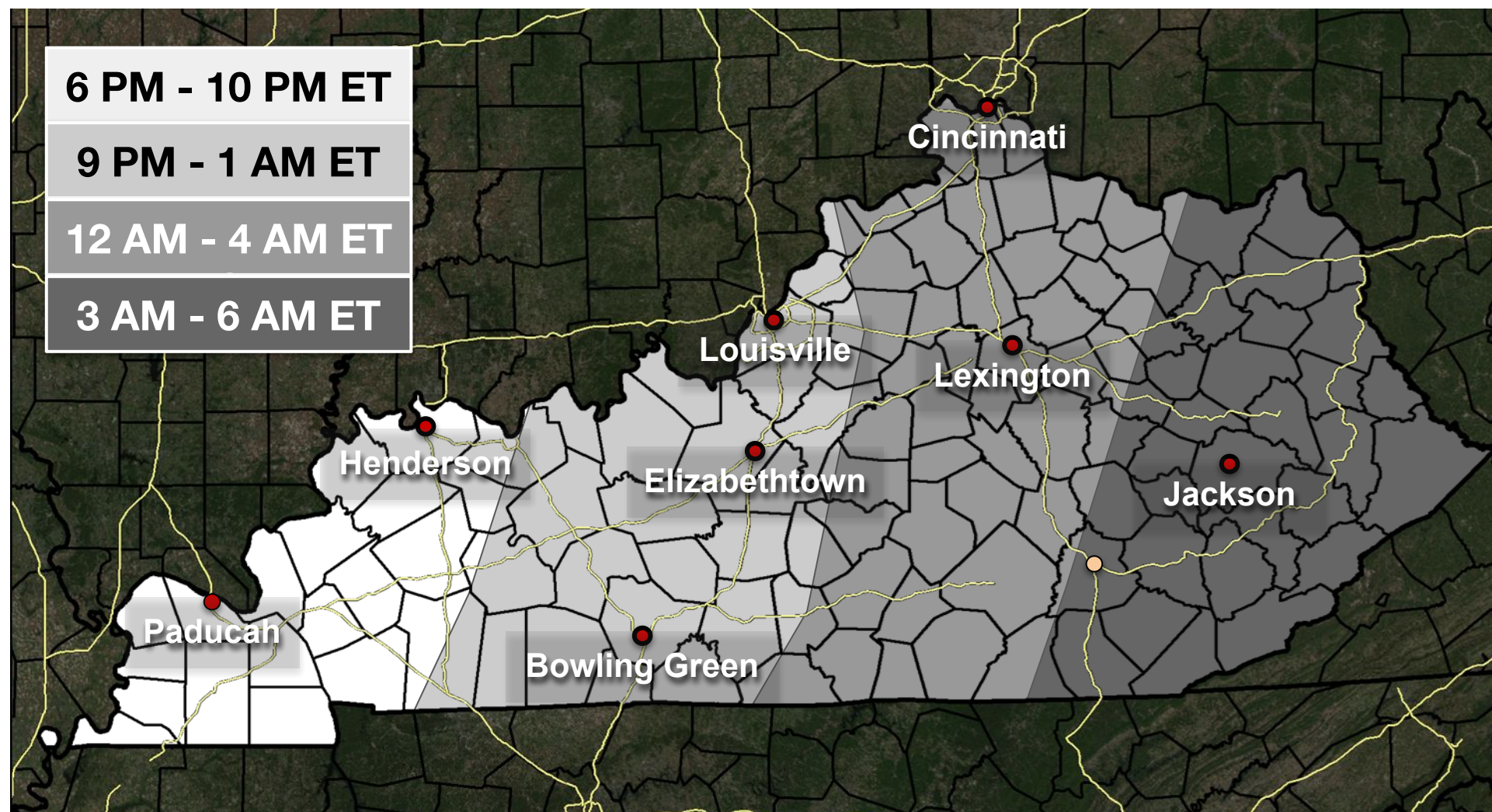
- Storms will develop across far western Kentucky this afternoon and quickly race eastward tonight into Saturday morning.
- The strength and severity of storms is expected to gradually decline with eastward extent.
- Storms should push east of the state before sunrise Saturday morning.

Confidence in Timing

Low

Medium

High



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Kentucky Forecast Offices



Strong Non-Thunderstorm Winds

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Gusts 55+ mph possible in the Kentucky Bluegrass region

Key Messages

- Non-Thunderstorm winds pick up out of the south and southwest Friday and continue into Saturday. The strongest wind gusts will likely occur Saturday morning
- Wind gusts of 40 to 50 mph will be possible during this timeframe, with isolated +55mph gusts.
- The strongest gusts will likely be across the Kentucky Bluegrass region.

Confidence in Gusty Winds

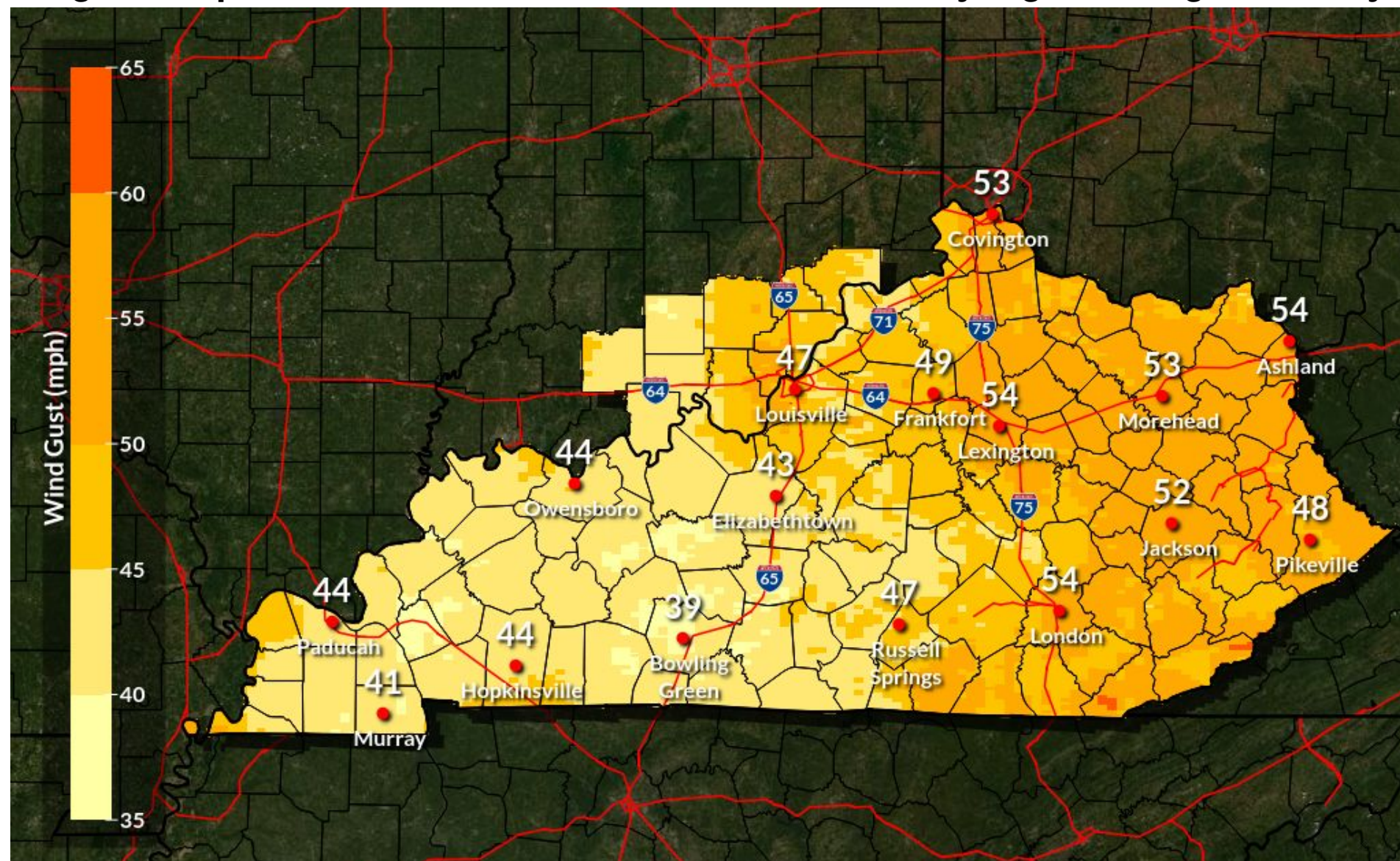
Low

Medium

High



Highest Expected Non-Thunderstorm Wind Gusts Friday Night Through Saturday



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Atmospheric Administration
U.S. Department of Commerce

National Weather Service
Louisville, KY



Severe Storms Expected Tonight

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Damaging Winds and Tornadoes expected across western KY, more scattered I-65 & East

Key Messages

- A strong system will move across the Ohio River Valley today into Saturday
- **A damaging wind and tornado outbreak is expected across western KY** late afternoon into evening **(level 4 out of 5 threat)**
- **Central Kentucky** can expect more scattered instances of damaging wind and tornado threat late evening/overnight **(level 3 out of 5 threat)**
- **Eastern Kentucky** can expect a weakening severe threat with isolated damaging wind and brief tornado threat possible **(level 1-2 out of 5 threat)**

Overall Confidence in Severe Storms

High

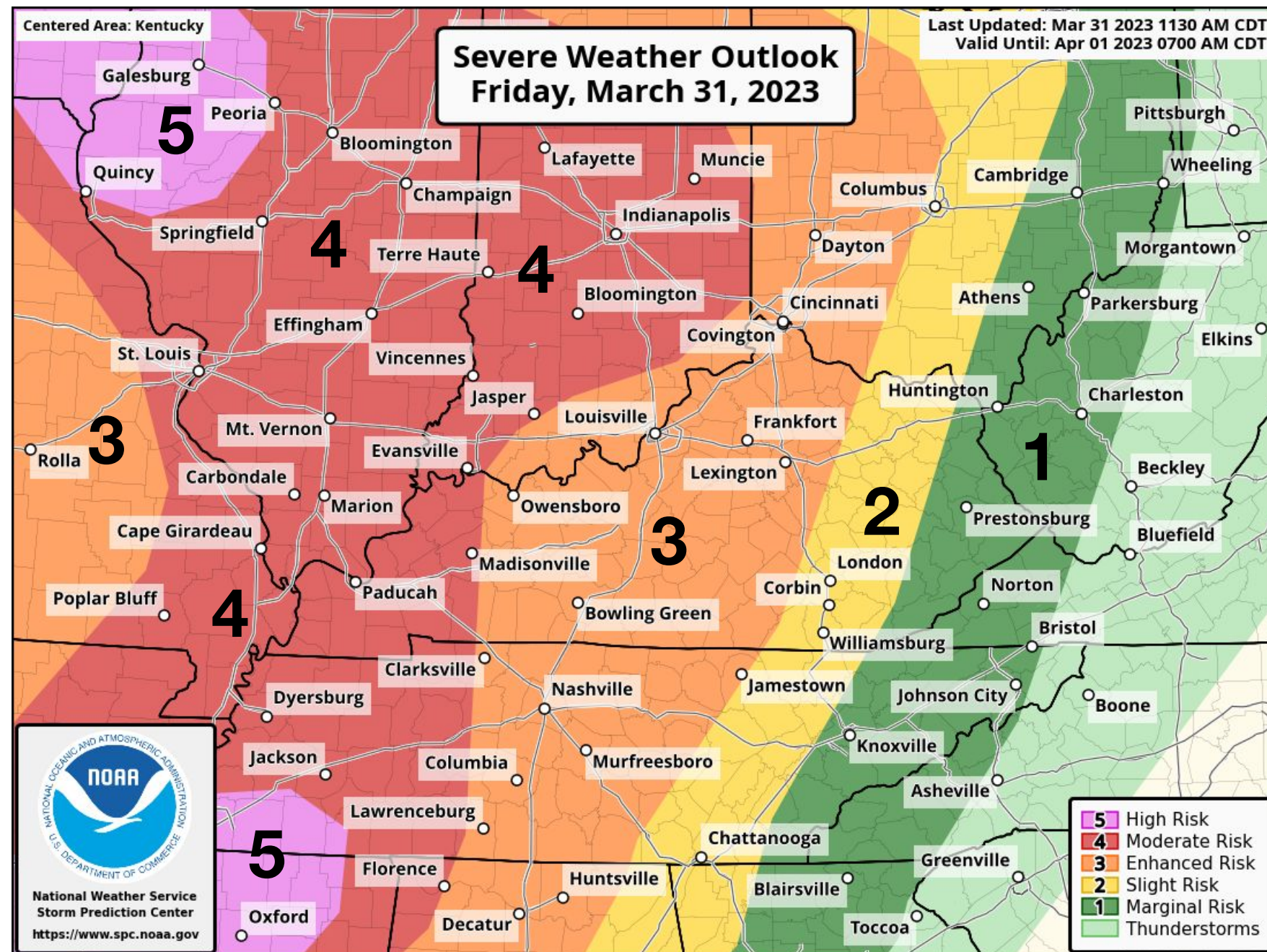
West KY

Medium

Central KY

Low

East KY



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National Weather Service
Louisville, KY

Tornado Sheltering Guidelines

Seek the best available refuge area **immediately** when a Tornado Warning is issued.
Your chance of surviving a tornado is excellent if you follow these guidelines.

WORST OPTIONS

Mobile homes
Vehicles
Underneath a
highway overpass

BAD OPTIONS

Large open rooms
like gymnasiums
Manufactured
housing

GOOD OPTIONS

Interior room of a
well-constructed
home or building
Basement

BEST OPTIONS

Above or below ground
Tornado Storm
Shelter
(NSSA/ICC 500 compliant)*
Specifically-designed
FEMA Safe Room*

Find another option



Stay in place until all clear

STORM PLANNING TIMELINE

A few days out

If the forecast calls for severe weather in a few days, start preparing now.



Make sure that you have emergency supplies



Know your safe places



Have a family communication plan

The day before

The day before, forecast accuracy continues to improve.



Adjust plans



Make sure your phone can receive WEAs



Ensure your shelter is clean and accessible

The day of

Remain vigilant and aware of any active Watches. A Warning may be issued at a moment's notice!



Remind your family of the communication plan



Know how to evacuate and/or get to safety from wherever you are



When a Warning is issued, you may only have seconds to take action!